T. Voxisor

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DATE: 10/01/2001

1635

PATENT APPLICATION: US/09/653,225 TIME: 09:49:12 Input Set : D:\MBHB00,882-C Sequence Listing.txt Output Set: N:\CRF3\10012001\1653225.raw 3 110 APPLICANT: Ribozyme Pharmaceuticals, Inc. .1 Chowrira, Bharat McSwiggen, Jim Stinchcomb, Dan 5 01200 TITLE OF INVENTION: Method and Reagent for the Inhibition of Telomerase Enzyme 10 - 1300 - FILE REFERENCE: MBHB00-882-C (400/019) C--> 12 <140 > CURRENT APPLICATION NUMBER: US/09/653,225 C--> 12 <141> CURRENT FILING DATE: 2000-08-31 LL (150) PRIOR APPLICATION NUMBER: 60/197,769 13 - 151 - PRIOR FILING DATE: 2000-04-14 ENTERED 15 - 150 - PRIOR APPLICATION NUMBER: 60/150,713 1: 151 PFIOR FILING DATE: 1999-08-31 La (160) NUMBER OF SEQ ID NOS: 5586 33 -170 - SOFTWARE: PatentIn version 3.0 32 (21) SEQ ID NO: 1 25 - 211 - LENGTH: 17 34 - 312 - TYPE: FNA 15 113 ORGANISM: Homo sapiens 27 400 SEQUENCE: 1 17 is cachacques ugaugaq 31 (21) A SEQ ID NO: 2 5. - 0:11: LENGTH: 17 33 - 212 - TYPE: FNA 34 (213) OPGANISM: Homo sapiens 66 - 14000 + SEQUENCE: 217 37 agagagadaa aagauga 4: -1:10 - SEO ID NO: 3 41 | 211 - LENGTH: 17 42 MILL TYPE: RNA 43 2213 OFGANISM: Homo sapiens 45 4400 SEQUENCE: 3 17 46 caudogauda augauga 4 : 0000 SEQ ID NO: 4 50 Dli+ LENGTH: 17 SI Dla-TYPE: FNA 50 0003 OFGANISM: Homo sapiens 54 - 4000 - SEQUENCE: 4 5% daggobaduad ogogagg 17 55 - 220 - SEQ ID NO: 5

RAW SEQUENCE LISTING

58 0017 LENGTH: 17 69 0012 TYPE: FNA

53 (4000) SEQUENCE: 5

54 Agodacguud gugdggd 57 (210) SEQ ID NO: 6 58 (211) LENGTH: 17 55 (222) TYPE: RNA

61 (203) OFGANISM: Homo sapiens

17

RAW SEQUENCE LISTING

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Input Set : D:\MBHB00,882-C Sequence Listing.txt

Output Set: $N:\CRF3\10012001\1653225.raw$

70 32135 ORGANISM: Homo sapiens 72 :400 · SEQUENCE: 6 73 gedaeguung ugeggeg 17 76 1310 - SEQ ID NO: 7 77 - 1211 - LENGTH: 17 78 D12 TYPE: RNA 79 - 213 - ORGANISM: Homo sapiens 81 400 - SEQUENCE: 7 17 8. cagaagauuu cagagag 85 -210 - SEQ ID NO: 8 86 Ull - LENGTH: 17 87 212 TYPE: RNA 88 213 ORGANISM: Homo sapiens 90 4001 SEQUENCE: 8 91 gyegyeuuue egegege 17 94 (21) - SEQ ID NO: 9 95 (F11) LENGTH: 17 96 ZZIZ TYPE: RNA 97 (213) ORGANISM: Homo sapiens 99 - 4000 - SEQUENCE: 9 100 geggeuuudd gegegeu 17 103 (210) SEQ ID NO: 10 104 :::11 LENGTH: 17 105 (212) - TYPE: RNA 106 - C. C. ORGANISM: Homo sapiens 108 4000 SEQUENCE: 10 17 109 embadaduca uudagad 112 -0.10 - SEQ ID NO: 11 113 - 111 LENGTH: 17 114 - 312: TYPE: RNA 115 CLIS OFGANISM: Homo sapiens 117 - 400 - SEQUENCE: 11 118 recouceuud egedagg 17 $121 \cdot |210| \cdot |SEQ|$ ID NO: 12112 - 211: LENGTH: 17 123 - 212 TYPE: RNA 1.4 - 313 - OFGANISM: Homo sapiens 116 4015 SEQUENCE: 12 17 127 and incured godaggu 100 210 SEQ ID NO: 13 131 ...111 LENGTH: 17 132 - 212: TYPE: RNA 133 - 2133 ORGANISM: Homo sapiens 135 - 4000 SEQUENCE: 13 136 chaqququee uqeeuqa 17 139 2101 SEQ ID NO: 14

140 - 211: LENGTH: 17 141 - 212: TYPE: RNA

142 213 ORGANISM: Homo sapiens

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/653,225

DATE: 10/01/2001 TIME: 09:49:12

Input Set : D:\MBHB00,882-C Sequence Listing.txt

Output Set: $N:\CRF3\10012001\1653225.raw$

400 SEQUENCE: 14		
gougacoune adenned		17
211 · LENGTH: 17		
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	sapiens	
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CLIA OFGANISM: Homo	sapiens	
	400 - SEQUENCE: 15 chigotouucg geuucge 210 - SEQ ID NO: 16 211 - LENGTH: 17 212 - TYPE: FNA 213 - OPGANISM: Homo 400 - SEQUENCE: 16 chieggeuuc gegeuge 210 - SEQ ID No: 17 211 - LENGTH: 17 - 212 - TYPE: FNA - 213 - OPGANISM: Homo 400 - SEQUENCE: 17 thicggeuucg egeugeu - 210 - SEQ ID No: 18 - 211 - LENGTH: 17 - 212 - TYPE: FNA - 213 - OPGANISM: Homo 400 - SEQUENCE: 18 - 213 - OPGANISM: Homo 400 - SEQUENCE: 18 - 23 - OPGANISM: Homo 400 - SEQUENCE: 18 - 23 - OPGANISM: Homo - 400 - SEQUENCE: 19 - 34 - OPGANISM: Homo - 400 - SEQUENCE: 19 - 34 - OPGANISM: Homo - 400 - SEQUENCE: 20 - 210 - SEQ ID NO: 20 - 211 - LENGTH: 17 - 212 - TYPE: FNA - 213 - OPGANISM: Homo - 400 - SEQUENCE: 20 - Gegeageuac cugecca - 210 - SEQ ID NO: 21 - 311 - LENGTH: 17 - 212 - TYPE: FNA - 213 - OPGANISM: Homo - 400 - SEQUENCE: 21 - Gugeageuac cugecca - 210 - SEQ ID NO: 21 - 311 - LENGTH: 17 - 312 - TYPE: FNA - 313 - OPGANISM: Homo - 400 - SEQUENCE: 21 - Gugeageuac cugecca - 3210 - SEQ ID NO: 22 - 3211 - LENGTH: 17 - 3212 - TYPE: FNA - 3213 - OPGANISM: Homo - 3400 - SEQUENCE: 21 - Gugeageuac accugeu - 3210 - SEQ ID NO: 22 - 3211 - LENGTH: 17 - 3212 - TYPE: FNA - 3212 - TYPE: FNA - 3213 - OPGANISM: Homo - 3400 - SEQUENCE: 21 - Gugeageuac accugeu - 3210 - SEQ ID NO: 22 - 3211 - LENGTH: 17 - 3212 - TYPE: FNA - 3212 - TYPE	Schippequic ggcunes (211) - SeQ ID No: 15 (211) - Lenoth: 17 (212) - Type: RNA (213) - Organism: Homo sapiens (40) - SeQUENTE: 15 (213) - SeQUENTE: 15 (214) - Lenoth: 17 (211) - Type: RNA (213) - Type: RNA (214) - SeQUENTE: 16 (214) - SeQUENTE: 16 (214) - SeQUENTE: 16 (214) - SeQUENTE: 16 (214) - SeQUENTE: 17 (211) - Lenoth: 17 (211) - Lenoth: 17 (211) - Type: RNA (213) - Organism: Homo sapiens (400) - SeQUENTE: 17 (211) - Type: RNA (213) - Organism: Homo sapiens (400) - SeQUENTE: 17 (210) - Type: SNA (213) - Organism: Homo sapiens (400) - SeQUENTE: 18 (211) - Lenoth: 17 (212) - Type: SNA (213) - Organism: Homo sapiens (400) - SeQUENTE: 18 (213) - Organism: Homo sapiens (400) - SeQUENTE: 19 (211) - Lenoth: 17 (212) - Type: RNA (213) - Organism: Homo sapiens (400) - SeQUENTE: 20 (200) - SeQUENTE: 20 (200) - SeQUENTE: 20 (200) - SeQUENTE: 21 (201) - SeQ ID No: 21 (211) - Lenoth: 17 (212) - Type: RNA (213) - Organism: Homo sapiens (400) - SeQUENTE: 21 (201) - SeQ ID No: 21 (211) - Lenoth: 17 (212) - Type: RNA (213) - Organism: Homo sapiens (400) - SeQUENTE: 21 (201) - SeQ ID No: 21 (211) - Lenoth: 17 (212) - Type: RNA (213) - Organism: Homo sapiens (400) - SeQUENTE: 21 (201) - SeQ ID No: 22 (201) - SeQ ID No: 20 (20

216 (40%) SEQUENCE: 23

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/653,225

DATE: 10/01/2001 TIME: 09:49:12

Input Set : D:\MBHB00,882-C Sequence Listing.txt

Cutput Set: N:\CRF3\10012001\1653225.raw

217 ugcugguuca ccugcug	17
320 1210 SEQ ID NO: 23	
221 - 2211 LENGTH: 17	
221 1212: TYPE: RNA	
223 - 2213 · ORGANISM: Homo sapiens	
225 (400) SEQUENCE: 23	
22F ligogogouou uugugou	17
223 - 1110, SEQ ID NO: 24	
230 (211) LENGTH: 17	
231 - 1112 - TYPE: PNA	
131 - 219 - ORGANISM: Homo sapiens	
134 0400; SEQUENCE: 04	
235 ogogouduu gugdugg	17
238 -0100 SEQ ID NO: 25	
233 (211) LENGTH: 17	
240 - 212 - TYPE: RNA	
241 - 213 - ORGANISM: Homo sapiens	
243 (400) SEQUENCE: 25	
244 gogououuug ugouggu	17
247 - 210 - SEQ ID NO: 26	
248 - 1111 LENGTH: 17	
243 (212) TYPE: FNA	
250 (1113) ORGANISM: Homo sapiens	
252 - 04000 SEQUENCE: 26	
25% ugguggbubb dagbugb	17
256 (210) SEQ ID NO: 27	
257 - 211 - LENGTH: 17	
258 (212) TYPE: RNA	
259 313 ORGANISM: Homo sapiens	
261 - (40m) - SEQUENCE: 27	17
261 cugodocuad caggugu	17
265 - 1210 - SEQ ID NO: 28	
266 :: : : : : : : : : : : : : : : : : :	
267 - 1212 - TYPE: PNA	
258 213: ORGANISM: Homo sapiens 270 340:: SEQUENCE: 28	
•	17
271 geograpa dagewoq 274 - 212-389 ID NO: 89	1 /
275 D1H- LENGTH: 17	
11/F - 11 LOS TYPE: RNA	
277 213 ORGANISM: Homo sapiens	
279 - 14000 - SEQUENCE: 19	
1280 waadagaudg gagauga	17
283 1210/ SEQ ID NO: 30	1,
284 - 211 LENGTH: 17	
285 212 TYPE: RNA	
28F - 213 - ORGANISM: Homo sapiens	
288 - 400. SEQUENCE: 30	
Udy sugceacuea ggeoogg	17

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RAW SEQUENCE LISTING

DATE: 10/01/2001 TIME: 09:49:12

PATENT APPLICATION: US/09/653,225

Input Set : D:\MBHB00,882-C Sequence Listing.txt

Output Set: N:\CRF3\10012001\1653225.raw

- 292 42105 SEQ ID NO: 31
- 293 211; LENGTH: 17
- 294 MAIN TYPE: ENA
- 395 3213 ORGANISM: Homo sapiens
- 297 (400) SEQUENCE: 31
- 198 dadadgouag uggadod
- 30% 210 SEQ ID NO: 32
- 302 2212 LENGTH: 17
- 303 (212) TYFE: FNA
- 304 213 OFGANISM: Homo sapiens
- 306 (400) SEQUENCE: 32
- 307 gaaqyogubu gggaugo
- 310 210 SEQ ID NO: 33
- 311 211 LENGTH: 17
- 312 712 TYPE: FNA
- 313 (113) ORGANISM: Homo sapiens
- 315 (400 + SEQUENCE: 33
- 316 dgaaddauag dgudagg
- 319 210 SEQ ID NO: 34
- 310 1111 LENGTH: 17
- 311 L12 TYFE: FNA
- 3.1 | | 113 ORGANISM: Homo sapiens
- 324 <400 SEQUENCE: 34
- 315 dauagoguda gggaggd
- 328 (210% SEQ ID NO: 35
- 3.1 4.11 LENGTH: 17
- 330 -1212 TYPE: RNA
- 331 (213) ORGANISM: Homo sapiens
- 333 1400 SEQUENCE: 35 334 geogggguee deduggg
- 337 :210 SEQ ID NO: 36
- 333 (211 · LENGTH: 17
- 333 212 TYPE: RNA
- 340 213 ORGANISM: Homo sapiens
- 342 (400 SEQUENCE: 36
- 343 recoalaqueu geoguug
- 346 210 SEQ ID NO: 37
- 3.1 7 .:11 · LENGTH: 17
- 348 010 TYPE: ENA
- 344 1213 · OFGANISM: Homo sapiens
- 351 400 SEQUENCE: 37
- 352 ubugboguug bedaaga
- 355 + 210 + SEQ ID NO: 38
- 356 1211 LENGTH: 17
- 357 211 TYPE: RNA
- 358 1213 · ORGANISM: Homo sapiens
- 360 (400) SEQUENCE: 38
- 361 adgeologuug ggolaggg 364 (210 - SEQ ID NO: 39

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/653,225

DATE: 10/01/2001 TIME: 09:49:13

Input Set : D:\MBHB00,882-C Sequence Listing.txt

Output Set: N:\CRF3\10012001\1653225.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:23655 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3164
L:2:672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3165
L:23689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3166
L:23706 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3167
L 29723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3168 L.19740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3169 L:19787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3170
L:19774 M:341 W: (46) "n" or "Xaa" used, for SE@ ID#:3171
L:19791 M:341 W: (46) "n" or "Xaa" used, for SE2 ID#:3172
L:19808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3173
L:19825 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3174
L:23842 M:341 W: (46) "n" or "Xaa" used, for SEG ID#:3175
L:19859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3176
L:2387f M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3177
L:2:893 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3178
L:23910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3179
L:2:927 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3180
L:10:944 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3181
L.23961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3182
L:2397% M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3183
L:20995 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3184
L:30012 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3185
L:\pm 0.019 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3180
L(30040\ M(341\ W(46)\ "n"\ or\ "Xaa"\ used, for SEQ ID#(3187)
L:3006: M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3188
L(30)080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3189
L:3009/ M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3190
L:30114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3191
L:30131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3190
L:30148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3193
L:30165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3194
L:30182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3195
L:30199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3196
L:30216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3197
L:30233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3198
L.7029 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3199
L:3 (267 \text{ M}:341 \text{ W}: (46) \text{ "n" or "Xaa" used, for SEQ ID#: } 3200
L:30284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3301
L:/0361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3202
L:30318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3203
L:20345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3204
L:30351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3205
L:30369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3206
L:30388 M:341 W: (46) "n" or "Xaa" used, for SED ID#:3207
L:30403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3208
L:30420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3209
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/653,225

DATE: 10/01/2001

TIME: 09:49:13

Input Set : D:\MBHB00,882-C Sequence Listing.txt

Output Set: N:\CRF3\10012001\1653225.raw

L:30437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3210 L:30454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3211 L:30471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3212 L:30488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3213